



Amoco Production Company

P.O. Box 17675 Salt Lake City, Utah 84117

January 5, 1981

CONFIDENTIAL

State of Utah Department of Natural Resources Division of Oil, Gas, and Mining 1588 West North Temple Salt Lake City, Utah 84116

File: MZ-1-031/WF

Application for Permit to Drill - Ken Cummings Federal "D" #1, Section 11, T16S, RlW, Juab County, Utah

Enclosed please find the subject "Application for Permit to Drill".

Amoco Production Company requests approval of the location as submitted in accordance with the provisions of Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure. Said location exception is required due to the irregular shape and size of the governmental section. In addition, the location selected will provide a safe and sanitary drill site and allow minimal surface disturbance as required by the Bureau of Land Management, surface owner.

Amoco owns or controls all acreage within a 660' radius of the proposed site.

Should you have any questions pertaining to the information enclosed, please contact Scheree Wilcox of this office at 272-9253.

Original Signed By
MARTIN ZIMMERMAN

Martin Zimmerman District Superintendent

Attachments

PECELYLU

JAN 7 198

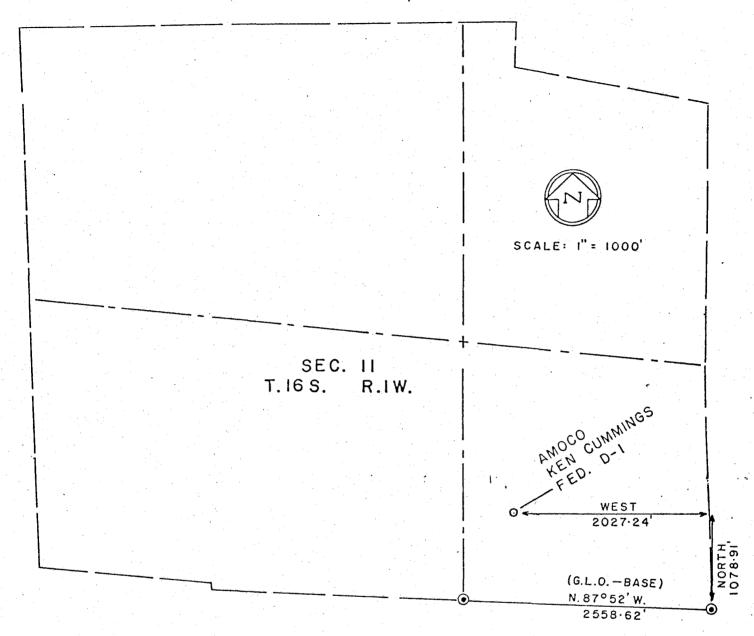
DIVISION OF OIL, GAS & MINING

(Other instructions on

DEPARTMET OF T	HE INTERIOR	0. LEANE DEHIGNATION AND SERIAL NO. U-14282
APPLICATION FOR PERMIT TO DR	ILL, DEEPEN, OR PLUG BA	
18. TYPE OF WORK DRILL DEE b. TYPE OF WELL	PEN PLUG BAC	7. UNIT AGREEMENT NAME
OIL GAS WELL OTHER 2. NAME OF OPERATOR	SINGLE MULTIPL ZONE ZONE	O. FARM OR LEADE NAME
Amoco Production Company		Ken Cummings Federal 'D'
3. ADDRESS OF OPERATOR	<u>Y</u>	#1
P.O. Box 17675 Salt Lake 4. LOCATION OF WELL (Report location clearly and in accord	e City, Utah 84117	10. FIELD AND POOL, OR WILDCAT
At surface		Wildcat
SE/4 Section 11, 2027.24'	/	11. SEC., T., R., M., UR BLK. AND SURVEY OR AREA
At proposed prod. zone	(1674)	0 11 71 0 71
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN	OR POST OFFICE*	Sec. 11, TI6S-RIW 12. COUNTY OR PARISH 13. STATE
8 miles south of Levan, Utah		Juab Utah
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 1078 01!	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
(Also to nearest drlg. unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION*	19. PROPOSED DEPTH	\20 ROTARY OR CABLE TOOLS
OR APPLIED FOR, ON THIS LEASE, FT.	VI III VIII	
21. PLEVATIONS (Show whather purpose CR, 1912)	3,000	22. APPROX. DATE WORK WILL START*
11 - 170 - 1 AL		When Approved
PROPOSE	D CASING AND CEMENTING PROGRA	M.
	HT PER FOOT SETTING DEPTH	QUANTITY OF CEMENT
	1# 1800'	Circ.
8½'' 7'' 23 a	§ 26 # 9500¹	*
* As determined from	logs	
Amoco Production Company pro	poses to test the <u>Arapie</u> r	formation for hydrocarbons.
	DOTTON TO THE PROPERTY.	
See Attachments		
occ recaciniencs		
APPROVED BY THE DIVISION	I K MAR	IFIDENTIAL
OF OIL, GAS, AND MINING		IFIDENITIE.
1/19/71		'' IUENIIAI
DATE:		
BY:		
		• • • • • • • • • • • • • • • • • • •
IN APONE GRACE DESCRIPTION DESCRIPTION AND APONE AND APONE AND APONE APO		
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is zone. If proposal is to drill or deepen directionally, give		
preventer program, if any. 24.		
Original Signed By		
BIGNED E. R. NICHOLSON	Administrative St	pervisor date 12-17-80
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	

KE CUMMINGS FEDERAL D

SWI/4 SEI/4 SEC. II, T. 16S., R.IW. JUAB COUNTY, UTAH



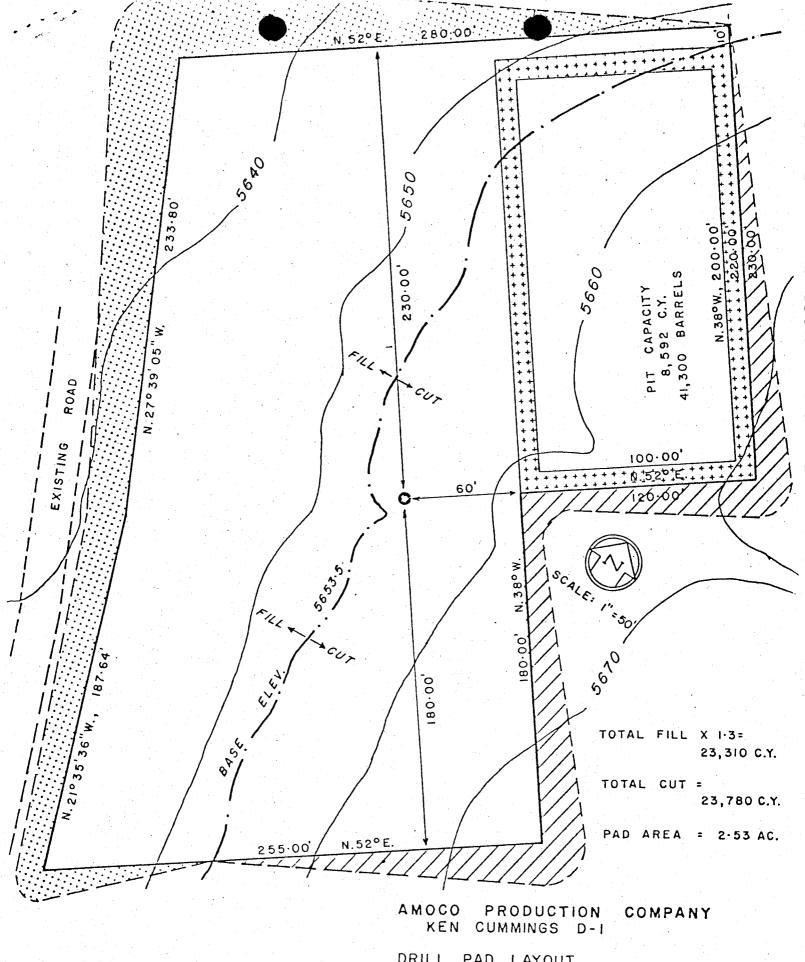
State of Wyoming)SS County of Sublette

I, Robert A. Harrower of Pinedale, Wyoming, hereby certify that this map was made from notes taken during an actual survey made by me on October 31, 1980, and that it correctly represents the location as described thereon.

Robert A. Harrower Utah P.E. and L.S. 5441

Exhibit A

J.O. 654

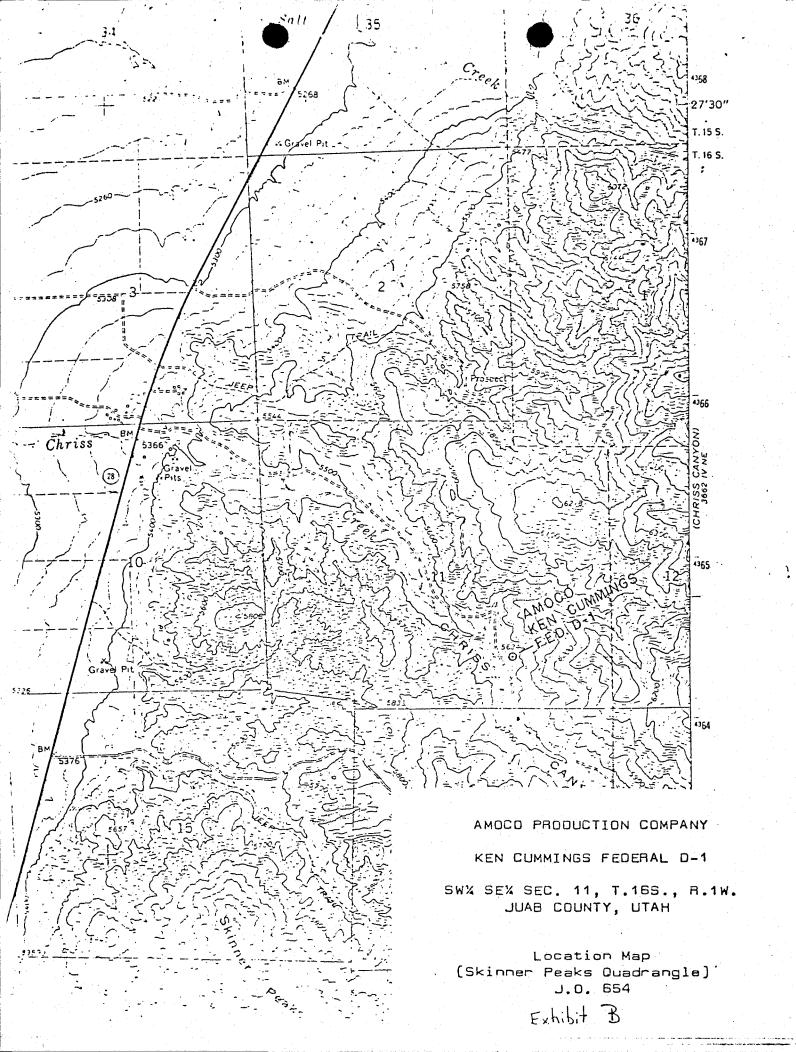


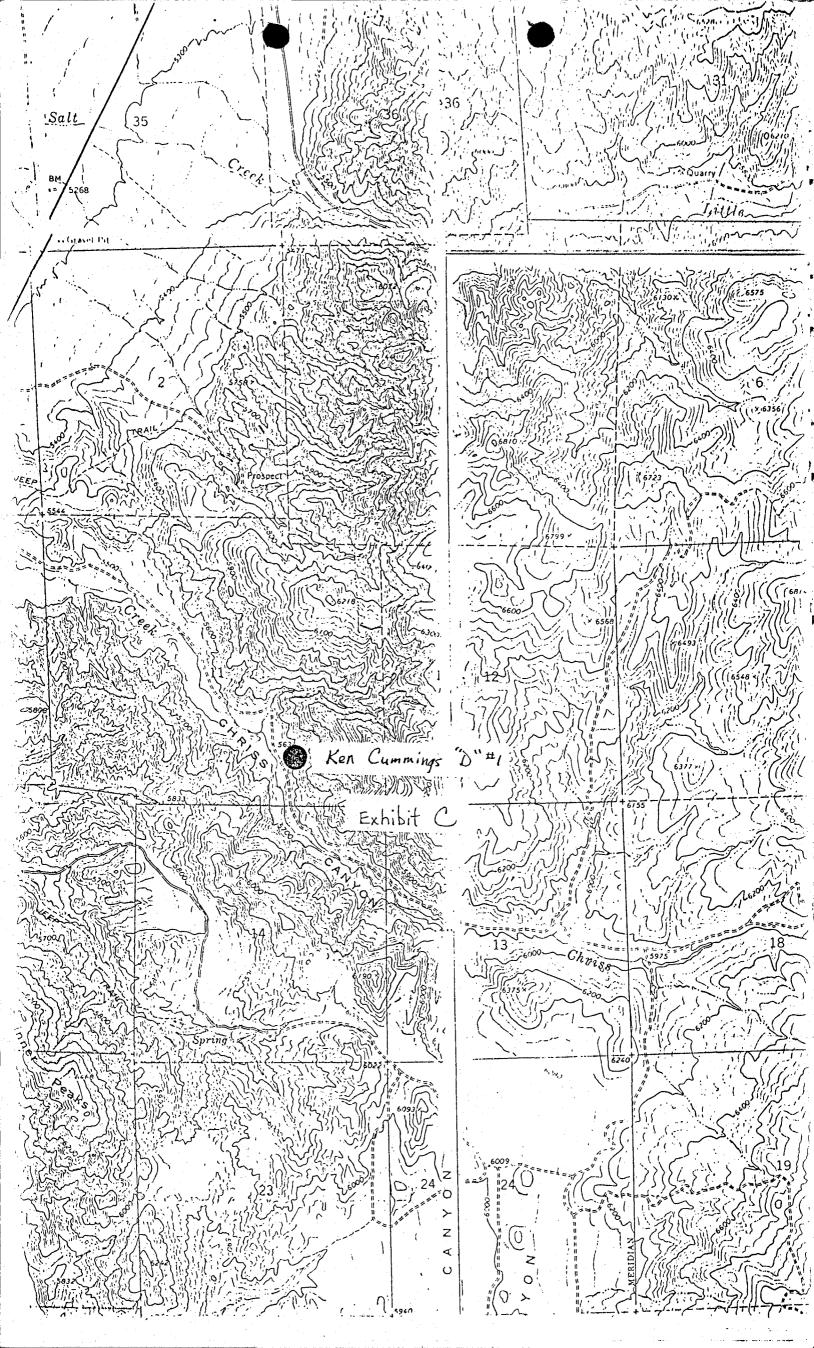
RIO VERDE ENGINEERING . J.O. 654

PLAN I — PAD ELEV. 5653.5

SWI/4 SEI/4 SEC. II, T.16S., R.IW.

JUAB COUNTY, UTAH Exhibit





Attachment To Form 9-331C

Ken Cummings Federal "D" #1

- 1) Geologic name of the surface formation: Tertiary
- 2) Estimated tops of geological markers:

Marker	<u>Depth</u>
Green River	Surface
Arapien	1000'
Navajo	5700'
Moenkopi	7100'
Thrust Fault	9000'
Arapien	9500'

3) Estimated depths anticipated to encounter water, oil, gas or other mineral bearing formations:

See Item #2, above

- 4) Casing Program: See Form 9-331C Item #23
- 5) Operators minimum specifications for pressure control equipment are explained on attached schematic diagram. Testing of such is to be performed daily and noted on the IADC Daily Drilling Report. After running surface casing and prior to drilling out, BOP and other pressure equipment will be tested to the full working pressure rating as shown on the attached diagram. Thereafter, the BOP will be checked daily for mechanical operations only and will be noted on the IADC Daily Drilling Report.
- 6) Mud Program:

App. Interval	Type Mud	Wt. #/Gal	Viscosity	W.L. CC/30M	Other Spec's
0-1800'	Native	8.3-8.5	As required	N/C	
1800-TD	LSND	8.5-8.9	32-38	15-30	•

7) Auxiliary Equipment:

Kelly cock: floor sub with a full opening valve. 3" choke manifold with remote control choke.

8) Testing Program:

DST - Arapien DST - Navajo

Logging Program:

<u>Type</u>	Depth Interval
DIL-FSL	BSC-TD
FDC-CNL	BSC-TD
Sonic Gamma Ray w/Cal.	BSC-TD
Dipmeter (HDT)	BSC-TD
FIL	BSC-TD
Gamma Ray	Surface-TD
lise Dresser Atlas	

Coring Program:

At the discretion of the Denver Exploration Department

Stimulation Program:

At the discretion of the Denver Exploration Department

- 9) No abnormal temperatures, pressures, or ${\rm H}_2{\rm S}$ are anticipated.
- 10) Anticipated starting date will be when approved and the duration of the operations will be approximately 180 days.

Ken Cummings Federal "D" #1

1. EXISTING ROADS - A legible map showing:

- A. Proposed well site as staked: See Exhibit A
- B. Route and distance from nearest town or locatable reference to where well access route leaves main road: See Exhibit B
- C. Access road(s) to location color-coded or labeled: See Exhibit B
- D. If exploratory well, all existing roads within a 3-mile radius of well site: See Exhibit C
- E. If development well, all existing roads within a 1-mile radius of well site: N/A
- F. Plans for improvement and/or maintenance of existing roads: Roads will be graded and maintained to prevent erosion, no major work is planned.

2. PLANNED ACCESS ROADS:

- (1) Width: 18'-20' Running surface total width will be approximately 30'-32' including barrow pits.
- (2) Maximum Grade: 0%
- (3) Turnouts: None planned
- (4) Drainage Design: Natural bar ditches adjacent to road
- (5) Location and size of culverts, location if any major cuts or fills: None proposed
- (6) Surfacing material: Native soil
- (7) Gates, cattle guards, fence cuts,: None proposed
- (8) Center line stake for new or reconstructed access: To be center line flagged when staked.

3. LOCATION OF EXISTING WELLS, 2-mile radius if exploratory:

- (1) Water wells: None
- (2) Abandoned wells: None
- (3) Temporarily abandoned wells: None
- (4) Disposal wells: None
- (5) Drilling wells: None
- (6) Producing wells: None
- (7) Shut-In wells: None
- (8) Injection wells: None
- (9) Monitoring or observation wells for other resources: None

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. Lessee operated/owned facilities within 1-mile radius:
 - (1) Tank batteries: None
 - (2) Production facilities: None
 - (3) Oil gathering lines: None
 - (4) Gas gathering lines: None
 - (5) Injection lines: None
 - (6) Disposal lines: None (buried or surface)

- B. New lessee operated/owned facilities in the event of production:
 - (1) Proposed location of lines: See Exhibit D
 - (2) Dimension of Facilities: See Exhibit D
 - (3) Construction methods and materials: OSHA & Amoco approved construction methods will be observed. Use of foreign material is not anticipated.
 - (4) Protective measures and devices to protect livestock and wildlife: Pits will be covered and fenced until dry, then filled.
- C. Plan for rehabilitation of disturbed areas no longer needed for operations after construction is completed: Areas no longer needed will be leveled, recontoured, and reseeded per Bureau of Land Management specifications.

5. LOCATION AND TYPE OF WATER SUPPLY:

- A. Location and type by map or description: Water to be hauled from Chriss Creek upon approval of Appropriation by State of Utah.
- B. Transportation map if pipeline: N/A
- C. Water well: N/A

6. SOURCE OF CONSTRUCTION MATERIALS:

- A. Location by map or description: Construction materials will be obtained from the disturbed areas. Use of foreign materials is not anticipated.
- B. Federal or Indian land ownership: Section 11, T16S-R1W Juab County, Utah
- C. Construction material obtained and used: Should it be necessary to obtain any foreign material, such as sand or gravel, said materials will be obtained from private sources.
- D. Access road on Federal or Indian land to construction material source: None

7. METHODS FOR HANDLING WASTE DISPOSAL:

- (1) Cuttings: to be contained in the reserve pit
- (2) Drilling fluids: to be contained in the reserve pit
- (3) Produced fluids, oil and water: to be contained in the reserve pit until clean-up, then skimmed or burned as the situation dictates
- (4) Sewage: contained in a pit and immediately backfilled
- (5) Garbage and other waste: contained in a wire meshed burn basket and burned or buried
- (6) Clean up after rig removal: the surface of the drill pad will be graded. The 'mouse' and 'rat' holes, sewage, burn pits will all be filled as soon as possible, the reserve pit will be fenced on all four sides until dry, then filled, recontoured and seeded.
- 8. AUXILIARY FACILITIES camps and/or airstrips:

None

9. WELL SITE LAYOUT:

- (1) Drill pad cross section: See Exhibit E
- (2) Location of mud tanks, reserve pit, burn and trash pit, pipe racks, living facilities, top soil stock pile: See Exhibit D

Page Three

- (3) Rig orientation, parking and access roads: See Exhibits D & E
- (4) Pits: all pits will be unlined

10. PLANS FOR RESTORATION OF SURFACE:

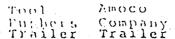
- (1) All pits and holes will be filled after rig removed except the reserve pit which will be fenced on all four sides. Waste items will be burned or buried.
- (2) Revegetation and rehabilitation of location and access roads will be handled per BIM specficiations.
- (3) Pits will be fenced per stipulations during drilling operations and after rig release.
- (4) Reserve pit oil will be removed, burned or the pit flagged as necessary.
- (5) Rehabilitation procedures will be commenced as soon as practical after rig removal, weather permitting and BIM specifications.

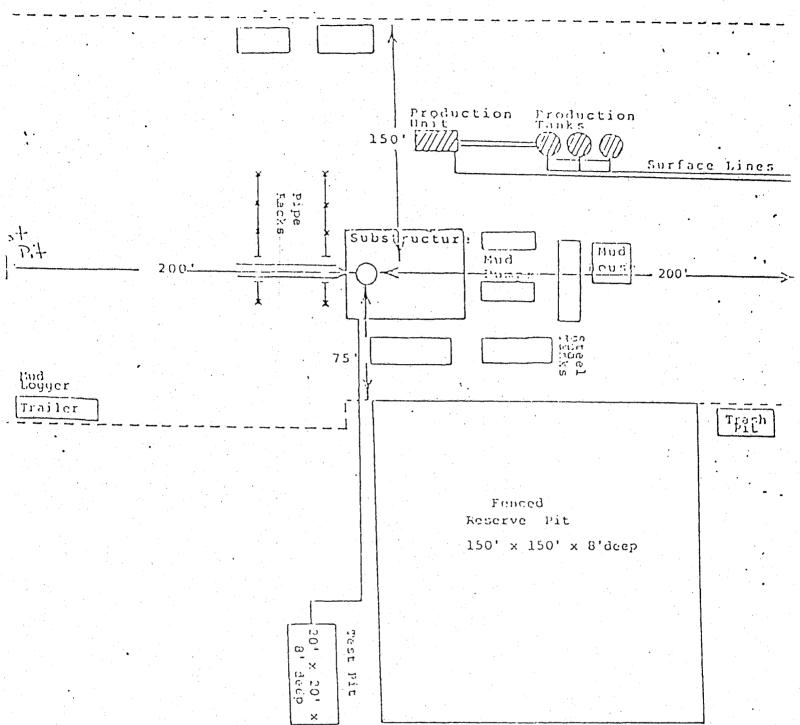
11. OTHER INFORMATION:

- (1) General description of surface: Light brown, fine sandy loam soil mixed with sandstone talus and cobbles. Ground cover includes Pinon-Juniper, sage, gambles oak, rabbit bush, cheet grass & russian thistle.
- (2) Surface use and surface ownership: Land used for grazing. Land owned by BLM.
- (3) Proximity of water, occupied dwellings, archeological, historical, or cultural sites: The Chriss Creek is located approximately 200' to the west of the site. No known occupied dwellings, archeological, historical or cultural sites are in the immediate vicinity.
- 12. Representative for Amoco Production Company is: W.R. Halvorson P.O. Box 17675, Salt Lake City, Utah 84117, telephone (801) 272-9253.
- 13. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by:

Amoco Production Company and it's contractors and sub-contractors in conformity with this plan, and the terms and conditions under which it is approved.

Date: _	12/31/80	Name and Title:	WRHalvarson
			District Drilling Superintendent





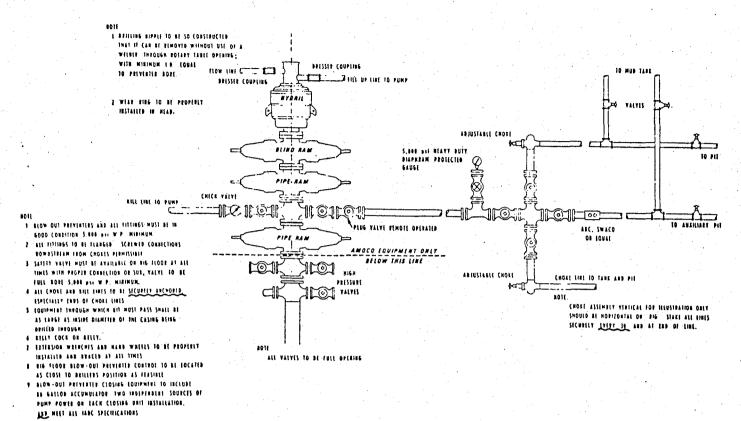
- Shows permanent production equipment to be installed after drilling rig has moved out.
 - --= Dotted lines indicated perimeter of leveled location.

The fenced pit used for production will be covered if any fluid is present. The drill and production pads will be constructed with doxers and graders using native material.

TYPICAL LOCATION LAYOUT ADO PRODUCTION COPPANY
P. O. EDX 17675
SALT LAKE CITY, UTAL EALLY

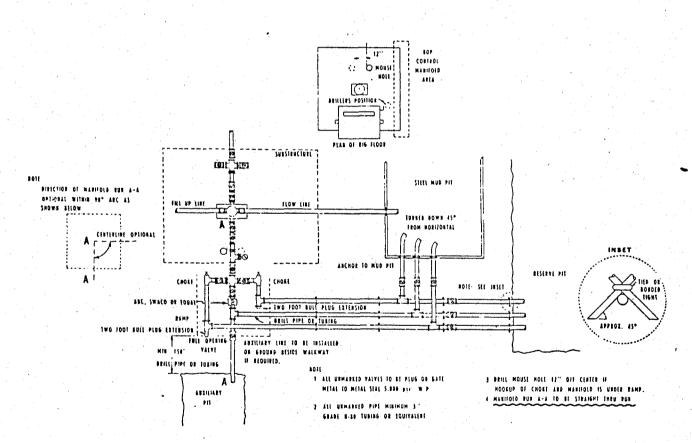
EXHIBIT "D

EXHIBIT: 80P-8000 INIMUM BLOW-OUT PREVENTER REQUIRMENTS 5,000 pel W.P.



DE MEEL TER ITEC SECURICATIONS

e de tatale



Amoco Production Company STANDARD ASSEMBLY FOR FLUID OPERATED TRIPLE BLOW OUT PREVENTER 5,000 pel W.P.

** FILE NOTATIONS **

DATE: <u>January</u> 12 1981	
OPERATOR: Amoch Production WELL NO: Ken Cummings	Company.
WELL NO: Ken Cummings	Fea. "D" (#1
Location: Sec. 11 T. 165 R	
File Prepared:	Entered on N.I.D:
Card Indexed:	Completion Sheet:
API Number 4	13-623-300/0
CHECKED BY:	
Petroleum Engineer: MJ. Mu	ider
Director: OK topo except	in under ule C3(c)
Jopo B	Equest
Administrative Aide: $C-3(c)$	etter enclosed
APPROVAL LETTER:	
Bond Required:	Survey Plat Required:
Order No.	0.K. Rule C-3
Rule C-3(c), Topographic Exception within a 660' radius o	- company owns or controls acreage of proposed site //
Lease Designation SUV.	Plotted on Map
Approval Lettq	r Written
Hot Line P.I.	<u> </u>

January 14, 1981

Amoco Production Company P. O. Box 17675 Salt Lama City, Utah 84117

Re: Well No. Ken Cummings Federal "D" #1 Sec. 11, T. 16S, R. 1W Juab County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the rollowing:

MICHAEL T. MINDER - Petroleum Engineer Office: 533-5771 Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (Acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-023-30010.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

Cleon B. Feight Director

/ko

cc: USGS



United States Department of the Interior

7230 U-501

BUREAU OF LAND MANAGEMENT HOUSE RANGE RESOURCE AREA Fillmore, Utah 84631

December 5, 1980

Geological Survey Conservation Division 2000 Administration Building 1745 West 1700 South Salt Lake City, Utah 84104

Attn: George Diwachak

Gentlemen:

Enclosed is a copy of a staff report for the Amoco Production Company well site (Ken Cummings D-1) T. 16 S., R. 1 W., Sec. 11.

The staff report outlines the rehabilitation of a non-productive site but does not specify for the access road. The road and its side ditches should be leveled, water bared and reseeded.

The mud pits should be fenced and flagged to protect livestock and wildlife.

Sincerely yours,

Area Manager

Enclosure: Staff Report

Pertelecon W BLM on 2/4/81 - No Tè E species in orea and Arch Report OK-HAUF Clearances SYD.

FEB 6 1981

DIVISION OF CIL, GAS & MINING

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

DEPARTMENT OF THE INTERIOR					5. LEASE DESIG	NATION AND SERIAL NO.	
GEOLOGICAL SURVEY					U-142		
APPLICATION	N FOR PERMIT	TO DRILL, DE	EPEN, C	R PLUG	BACK	6. IF INDIAN, A	LOTTEE OR TRIBE NAME
1a. TYPE OF WORK	ILL 🗓	DEEPEN [PLUG B	ACK 🗌	7. UNIT AGREED	MENT NAME
b. TYPE OF WELL	A8 🗀		Single [CIPLE [7		
WELL LAI W	ZELL OTHER		ZONE	ZONE		8. FARM OR LEA	
2. NAME OF OPERATOR	D1	, ,				Ken Cummin	ngs Federal ''D'
3. ADDRESS OF OPERATOR	oco Production (Lompany				9. WELL NO.	Ī
) Row 17675 Co	lt Tako City	II+ob 9	2/.117		10. FIELD AND	POOL, OR WILDCAT
	D. Box 17675 Saleport location clearly and	in accordance with	any State requ	irements.*)			dcat
At surface SE/4	Section 11, 202	27.24' FEL &	1078.91	FST.		11. SEC., T., R.,	M., OR BLK.
At proposed prod. zor	•	,				AND SURVE	
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POST	OFFICE*			Sec. II	, T16S-RIW
	ith of Levan, Ut						
15. DISTANCE FROM PROPO	OSED*		6. NO. OF ACE	ES IN LEASE	17. No.	Juab of acres assigne	Utah
LOCATION TO NEARES PROPERTY OR LEASE I	LINE, FT. g. unit line, if any) 107	78.91'				HIS WELL	
	RILLING, COMPLETED,	1	9. PROPOSED I	EPTH	20. ROTA	RY OR CABLE TOO	r s
OR APPLIED FOR, ON TH	-		9500 '		l R	otary	ATE WORK WILL START*
•	5700'		•		•		
23.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	PROPOSED CASING	AND CENTS	DOOR DYNA	D 435	I When App	proved
<u> </u>				NIING PROG	KAM		
SIZE OF HOLE	SIZE OF CASING	[WEIGHT PER FOOT SETTING DEPTH			QUANTITY OF	CEMENT
17½"	13-3/8"	61#				Circ.	
8111	<i></i>	23 & 26 #		9500 '		<u>*</u>	
							•
	* As determined	l from logs					
Amoco Pr	coduction Compar	ny proposes t	to test t	he Arapi	en form	ation for 1	nydrocarbons.
			523			Linan	
. See Atta	achments					MI IS	
						M - Δ - Q Λ	
			1		h_ 10	S. C. Jan.	
					1	U.	
						MISION OF	NG
						DIVIS 8 WIN	1140
			•		Oli	<u> </u>	*
zone. If proposal is to	e proposed program: If drill or deepen directions						
preventer program, if an 24.	iy- (· .				
SIGNED E	. Wechal.	TITLE	Adminis	strative	Supervi	SOL DATE	12-17-80
(This space for Fede	eral or State office use)						·
PERMIT NO.			APPROVA	L DATE			
61	11 Monta		OB E.W	. GUYNN	EER		FEB 0 5 1981
APPROVED BY	vymus	TITLE	DIS.	FRICT ENGIN	L-[] '	DATE	U U 1301
CONDITIONS OF APPROV	VAL, IF ANY:			\/AI ATT	ACHED	4	

TO OPERATOR'S COPY *See Instructions On Reverse Side

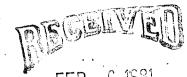
FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

NOTICE OF APPROVAL

with Ail & Gas

Production Facilities and Flowline NOT Approved

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE



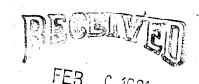
	Fodo	ral/State Ag		Local and private	•	Other	•	FEB 6 198	
Criteria 516 DM 2.3.A	Corre- spondence (date)	Fhone check (date)	Meeting (date)	corre- spondence (date)	Previous NEPA	studies and reports	Staff expertise	DAJEDN OF OJEGENE WININ (date)	: IING Other
. Public health .	1 (12-5-80)		and the second					6 (11-12-80)	4
teristics	Population American		Bergger Valley	i i i i i i i i i i i i i i i i i i i	•	2		6 11	4
. Environmentally controversial	1 "					2		k 11	4
. Uncertain and unknown risks	/ 11.					2		6 "	4
5. Establishes precedents							6		4
Cumulatively significant					•			6 "	4
7. National Register historic places		1 (2-4-81)							10
3. Endangered/ threatened species	•	1 (2-4-81)			,		,		
9. Violate Federal, State, local, tribal law		-					6		4

CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

- 1. Surface Management Agency Input
- 2. Reviews Reports, or information received from Geological Survey (Conservation Division, Geological Division, Water Resource Division, Topographic Division)
- Lease Stipulations/Terms
- 4. Application Permit to Drill
- 5. Operator Correspondence
- 6. Field Observation
- 7. Private Rehabilitation Agreement
- 8. RECOMMENDED STIPULATIONS
- 9. PRIVATE REHAB LETTER DATED 1/26/81
- 10 ARCHAEOLOGICAL REPORT

DIVISION OF OIL, GAS & MINING





RECOMMENDED STIPULATIONS FEB 0 1991

- 1. A berned ditch shall be constructed on the uphill site the pad area to divert runoff around the pad
- 2. A BUFFER STRIP OF UNDISTURBED Vegetation at least 30 FT WIDE shall remain between the Drainade northwest of the pad and the TOE of the Slope of the northwest SIDE OF the pad
- 3. The fill portion (west corner and adjacent sides) of the reserve pit shall be key seated and the dike compacted in lifts to protect potential spills from reaching CHRISS Creek.
- 4. 6-10 inches of topsoil shall be stockpill along the southeast SIDE of the PAD.
- 5. Upon abandonment, the new access road shall be teveled, water barred and reseded with recommended mixtures
- 6. It a rehabilitation agreement cannot be reached with the private Landowner, the following restoration recommendations shall apply:
 - a. Upon completion of drilling operations, all disturbed areas not needed for production will be leveled in such a way to blend with the natural terrain of the area, topoil redistributed and the area reserved.

b. Upon abandonment, topsoil'shall be redistributed and all disturbed areas from oil operations will be reserved using the following mixture in larly spring or October of that year:

1bs lacre
3
3
2

Species
Indian Rice gross
Crested wheat grass
Yellow sweet clower

The above mixure shall be used for all recommended.



FEB 6 1981

DIVISION OF CIL, GAS & MINING United States Department of the Interior Geological Survey 2000 Administration Bldg. 1745 West 1700 South Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICA	ATION		•		
Operator Amoco PRODUCTION Co.					
Project Type <u>Oil</u>	WELL				
Project Location	SEC. 11 TIGS RIW				
Well No. /	Lease No.	U-14282			
Date Project Submi	tted 1-7-81		•		
FIELD INSPECTION	Date //-/2-80	•			
Field Inspection Participants	GEORGE DIWACHAK	USGS			
	BIRREIL HIRSCHI	BLM			
•	V. J. SHEPPARD	Amoco	•		
•	ScHEREE WILCOX	AMOCO			
	BOB HARROWER		ENGINEERING.		
-					
	Typing In & Out:	: .	• • •		
		·. •			
review guidelines.	ne proposal in accordance with the This proposal would not involves not represent an exception to	ve any signif	icant effects		
2-5-81	Elleva	ge L Din	rachah		
Late Prepare		ivi formental So	cientist		
I concur	FEB 0 1881				
2/5/8	DIVISION OF OIL, GAS & MINING	Lung.	•		
Date /	Die,	istrict Superv	isor		



United States Department of the Interior

7230 U-501

BUREAU OF LAND MANAGEMENT HOUSE RANGE RESOURCE AREA Fillmore, Utah 84631

Staff Report

Title:

Well Site Investigation, BLM, USGS and Amoco

Date:

November 24, 1980

Author:

E. Birrell Hirschi, Surface Protection Specialist

On November 12, 1980, George Diwachak, USGS; V. J. Shephard, Amoco; Scheree Wilcox, and Bob Hanover, Amoco; and I investigated the Amoco Production Company well site (Ken Cummings Federal D-1) T. 16 S., R. 1 W., Sec. 11.

Short access road of about 300 feet will have to be built from the Chriss Creek Road. A drill pad of 400 X 300 feet will have to be constructed at the site.

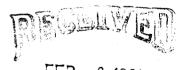
Surface disturbance for the access road will be held to a minimum as there will be no big cuts or fills to reach the site from the existing road.

Some 3 to 5 feet of surface material will be over the northern portion and deposited on the south edge to level out the pad.

The access road and drill pad is covered by Big sagebrush, juniper trees and blue bunch wheatgrass.

It is recommended that upon completion of drilling operations, all disturbed areas not needed for oil production operations be leveled in such a way as to blend with the natural terrain of the area. Also, if the site is abandoned as non productive, that all disturbed areas from oil operations be reseeded using the following mixture of 8 lbs. of viable seed in early Spring or October of that year:

1bs/acre	<u>Species</u>
3 ' 3 2	Indian Rice grass Crested wheatgrass Yellow sweet clover



FEB 0 1981

DIVISION OF OIL, GAS & MINING

Murill Afrische

Formation ==

LYNES, INC

Box 12486 Houston, TX 77017

Address

Operator

Amoco Production Co.

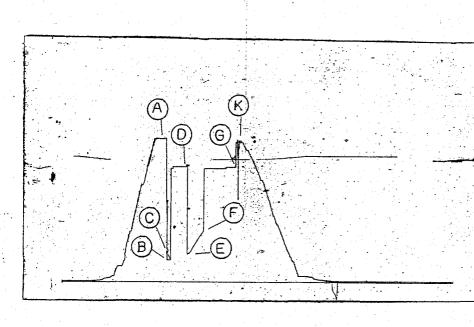
_	Dawkan Duilling G	_
Contracto	Parker Drilling Co	5.
Rig No	148	
Spot	SW-SE	
Sec	11	1 1
Twp	16 S	
Rng.	1 W_	
Field	Wildcat	- 4
County	Juab	1 1
State	Utah	
Elevation.	5725' Ground	
	*	

Top Choke	1/4"
Bottom Choke_	3/4"
Size Hole	12 1/4"
Size Rat Hole	
Size & Wt. D. P.	4 1/2" 16.60
Size Wt. Pipe	
I. D. of D. C	2 1/4"
Length of D. C	215'
Total Depth	8769'
Interval Tested_	8702-8769'
Type of Test	Bottom Hole
•	Conventional

Flow No. 1	15	Min.
Shut-in No. 1	60	Min.
Flow No. 2	60	Min
Shut-in No. 2	120	Min.
Flow No. 3		Min.
Shut-in No. 3		
Bottom Hole Temp	205 ^O F	
Mud Weight	9.3	

lole Temp	205 F	
Mud Weight	9.3	
Gravity		
/iscosity	53	

12:03 PM Tool opened @.



Outs:	<u>ide R</u>	ecorder
PRD Make Kuste	er K-	3
No16830 Cap. 6	5950	_@ <u>8708'</u>
Press		Corrected
Initial Hydrostatic	Α	4224
Final Hydrostatic	K	4166
Initial Flow	В	632
Final Initial Flow	С	629
Initial Shut-in	D	3401
Second Initial Flow	E	820
Second Final Flow	F	1493
Second Shut-in	G	3392
Third Initial Flow	Н	
Third Final Flow	ı	
Third Shut-in	J	
	•	

Lynes Dist.: Rock Springs, Wyo Our Tester: Charles Tuzicka Nyle Merkley Witnessed By:___

Did Well Flow - Gas. RECOVERY IN PIPE:

3572' Total fluid (ran 1000' water cushion)

1000 Water cushion = 14.20 bbl. 2572 Water cut mud = 34.52 bbl.

.6 @ 110° F = 6500 ppm. Cl. Top Sample R.W.: .2 @ 110 F = 21,000 ppm. C1. .2 @ 110 F = 21,000 ppm. C1. Middle Sample R.W.: Bottom Sample R.W.:

Blow description:

1st flow:

Tool opened with a weak blow; increased to bottom of bucket in

10 minutes and continued to increase to .50 psi. at end of

flow period.

2nd flow:

Tool opened with a weak blow; increased to bottom of bucket in 15 minutes and continued to increase to .75 psi. at end of flow period.

LY-230

Well Name and No. Sevier Bridge

6-2-81

DST No.

No. Final Copies

LYNES, INC.

Sampler Report

Company	Amoco Pi	roduction Co.		Date6	5-2-81	
Well Name & No	Sevier I	Bridge #1		Ticket No	20509	
County	Juab			State	/tah	
Test Interval	8702-876	69 '				v
Total Volume of	Sampler:	2150				cc.
Total Volume of	Sample:	2000 .	Anna di Caranta di Car		-	cc.
Pressure in	Sampler:	72				psig
	Oil:	None	 			cc.
	Water:	2000			_	cc.
	Mud:	None				cc.
	Gas:	None			·	cu. ft.
	Other:	None		and the second s		
		Sample R.W.	: .2 @ 110°F =	21,000 ppm. Cl.		
			Resistivity			
Make Up Water_	R.W.	2.0 @_	75°F	of Chloride Content	1750	ppm.
Mud Pit Sample_			85°F	of Chloride Content	27,500	ppm.
Gas/Oil Ratio			Gravity		OAPI @	o _F
Where was sample	e drained	On location				
Remarks:						
nemarks					**************************************	
***************************************	<u> </u>		and the same of th			anie na managania anie anie anie anie anie anie anie
	•					
		The second secon	<u> </u>		•	
		- in the state of				

LYNES, INC.

Distribution of Final Reports

	Production Company Operator	Sevier Bridge Unit #1 Well Name and No.
Original &		
1 Copy:	Amoco Production Company, 17th	n and Broadway, Amoco Building, Denver, CO
	80202, Attention: Ching Ayer	
2 Copies:	Placid Oil Company, 410 17th	Street - Suite 2000, Denver, CO. 80202
	Attention: James Hein	
2 Copies:	Mobil Oil Company, Box 5444, I	Denver, CO. 80217, Att: Fred Meyer
1 Copy:	Amoco Production Company, P.O.	. Box 17675, Salt Lake City, UTAH 84117
	Attention: Forest Estep	
2 Copies:	Chevron USA, Box 599, Denver,	CO. 80201, Attention: Frank Rayse
2 Copies:	Natural Resources, Inc., 999	18th Street, Suite 350, Denver, CO. 80202
	Attention: Bruce Trimbol	
		and the second
, , , , , , , , , , , , , , , , , , , 		
		despite at the first and an experience of the first and a series of the series of the first and a series of the first and a series of the series of t
	and the same of th	

UNI STATES

V STATES

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

	1.0	-
	1.	
	4	
	1.	
_		_

Form Approved. Budget Bureau No. 42-R1424

5	.1	F	.
•			7.77

U-14283

GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS (Do not use this form for proposals to drill or to decorate to the reservoir. Use Form 9–331–C for such proposals.)	7. UNIT AGREEMENT NAME
1 oil gas	8. FARM OR LEASE NAME Ken Cummings Federal "D"
well well other MAR 2 7 19	9. WELL NO. #1
Amoco Production Company 3. ADDRESS OF OPERATOR DIVISION C	10. FIELD OR WILDCAT NAME Wildcat
P. O. Box 17675, Salt Lake City, Utah	NNG 11. SEC., T., R., M., OR BLK. AND SURVEY OF
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See spa below.)	Sec. 11, T16S, R1W
AT SURFACE: SE/4 Sec. 11, 2027' FEL & 107 AT TOP PROD. INTERVAL: FSI AT TOTAL DEPTH:	9' 12. COUNTY OR PARISH 13. STATE
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NO	TICE.
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD 5700' GR
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT O	
TEST WATER SHUT-OFF	
REPAIR WELL	(NOTE: Report results of multiple completion or zon change on Form 9–330.)
MULTIPLE COMPLETE	
ABANDON*	
(other) Name Change	
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clear including estimated date of starting any proposed work. If we measured and true vertical depths for all markers and zones p	ell is directionally drilled, give subsurface locations an
Please accept this sundry notice as Amo	co Production Company's request
to change the name on this well to Sevi	er Bridge Unit #1.5
ATT // 40 000 000	
API # 43-023-30010	
Subsurface Safety Valve: Manu. and Type	F1
18. I hereby certify that the foregoing is true and correct	
	ative Suppare March 12, 1981
(This space for Federal or S	tate office use)
APPROVED BY TITLE TOTALL TOTA	DATE SATE SATE
	CONTRACTOR OF THE CONTRACTOR O

DIVISION OF OIL, GAS AND MINING

PLUGGING PROGRAM

Confidential

NAME OF COMPANY:	Amoco	Forrest Estep 272	2-9253
WELL NAME: Sevier	Bridge Unit #1	(Fed.)	
SECTION 11 To	OWNSHIP 168	RANGE COUNTY	Juab
VERBAL APPROVAL GIVE MANNER:	N TO PLUG AND A	BOVE REFERRED TO WELL IN TH	E FOLLOWING
TOTAL DEPTH: 11,000'			
CASING PROGRAM:		FORMATION TOPS:	
13 3/8" @ 1800' cement	# 	DST: 5621-83', 5700-5808' 8420-25', 8702-69'	
12 1/4" openhole (in ga	ge)	Cored: 6302-306', no water	er or shows
		Green River- Arapien- Walton Creek- Navajo-	surface 1000' 4770' 5235'
PLUGS SET AS FOLLOWS	1 1	Moenkopi- Navajo-	? 7990 '
1. 11,000-10,900'		Estimated Thrust Fault- Arapien-	9000 ' 9500 '
2. 8190-7890'		Chinle-	8847-11,000'
3. 5335-5135'			
4. 1900-1700'		Place 9.2#, 54 vis. fresh mud between plugs; erect r	
5. 50'-surface		marker; clean up, grade ar cation.	
DATE		SIGNED MIM	1.11.

(Rev. 5 63)		JNITED S			IN DUPLICATE	in-	Form approved. Budget Bureau No. 1, 13556.
	DEPARTI GE	OLOGICAL		IERIOR	revers	JAC)	ESIGNATION AND SERIAL NO.
WELL CO	MPLETION C	OR RECOM	PLETION R	REPORT A	ND LOG	6 TE INDIA	N, ALLOTTEE OR TRIBE NAME
1a. TYPE OF WELL	L: OIL WELL	GAS WELL	DRY XX	Other		7. UNIT AG	REEMENT NAME
b. TYPE OF COMP	PLETION: WORK DEEP- OVER EN	PLUG BACK	DIFF. RESVR.	Other		Sevi	er Bridge Unit
2. NAME OF OPERAT						Sevi	er Bridge
3. ADDRESS OF OPER		ODUCTION C	OMPANY			9. WELL NO).
o. andumsis of order		17675 Sa	lt lake Ci	tv III_84	117	10. FIELD	# AND POOL, OR WILDCAT
	O79' FSL & 2	clearly and in acc	ordance with any	NE COLOR		Wild 11. SEC., T.	, R., M., OR BLOCK AND SURVEY
At top prod. into	erval reported below	8		₽ SEP. 2 (R 1981		11, T16S, R1W SLI
At total depth							
15. DATE SPUDDED	16 2477 772 772		14. PERMIT NO. 43-023-30	nor o DIVÍSIO	IN DE81	12. COUNTY PARISH JUAD	Utah
2-24-8]	7-07-81	· :		PURU, GASE		KB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
20. TOTAL DEPTH, MD		7-7 ACK T.D., MD & TV	D 22. IF MULT	TIPLE COMPL.,	5600' GR		OOLS CABLE TOOLS
11,000'			HOW M		DRILLEI	Surf. to	TD
24. PRODUCING INTER	val(s), of this co None	MPLETION—TOP, I	BOTTOM, NAME (M	ID AND TVD)*			25. WAS DIRECTIONAL SURVEY MADE NO
26. TYPE ELECTRIC A	ND OTHER LOGS RUN						1 27. WAS WELL CORED
	; DIL-SFL; C		Dinmeter				Yes
28.	,, .		G RECORD (Rep.	ort all strings se	et in well)	· · · · · · · · · · · · · · · · · · ·	103
CASING SIZE	WEIGHT, LB./FT.			LE SIZE		TING RECORD	AMOUNT PULLED
13 3/8"	61#	1801	<u>'</u> 17	7 1/4"	2260 sx	-	None
29.	LI	NER RECORD		,	30.	TUBING REC	CORD
SIZE	TOP (MD) B	OTTOM (MD) 8	ACKS CEMENT*	SCREEN (MD)	SIZE	ESEPTE ET	MD PAKER SET (MD)
None					None		
31. PERFORATION REC	ORD (Interval size	and number)					7
	(2.000, 2.00, 0.00			32.		RACTURE, COMI	NT QUEEZH ETC.
	None			Non		AMOUNT AND K	IND OF MATERIAL USED
		· .					
*						بالمنفسس أ	
	·						
33.* DATE FIRST PRODUCT	ION PRODUCT	ION METHOD (Flo		OUCTION umping—size an	d type of pump)	WEL 8h	L STATUS (Producing or nut-in)
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS-MCF.	WATER—BI	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS-MC	ef. W	TER—BBL.	OIL GRAVITY-API (CORR.)
34. DISPOSITION OF G	AS (Sold, used for fu	el, vented, etc.)	1			TEST WITN	ESSED BY
35. LIST OF ATTACH!	MENTS					<u> </u>	<u> </u>
	that the foregoing riginal Signed B	and attached info		•	as determined :		records

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency or a State and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on Items 22 and 24, and 33, below regarding separate reports for separate completions.

attachments In a filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

11 there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements.

lem 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

14 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 38. Submit a separate report (page) on this form, adequately identified, Consult local State or Federal office for specific instructions.

interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately for each additional interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

8702 Stem Test #2 Stem Test #1

FORMATION	ED, CUSHION U	SED, TIME TOOL OF	SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, ANCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES	90.	GEOLUGIC MAKAEKS	•
	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	1 2 2 2	TOP	
				A A Si B	MEAS. DEPTH	TRUE VERT. DEPTH
•						
Core #1	6568	6581	Cut 13' recovered 13'	Navajo	5335	
				Navajo Chinle	79901 8847	
					•	
				אוניים		
- -					•	

UNITE	D S	ΓΑΤΕ	s	1213
DEPARTMENT			31 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RIOR
GEOLOGI	CAL	SUR	WEY'	
			1	$m: \mathcal{T}$

	DOMBOL DO! 000 1101 12	
EASE		

LLASE	
	11-1428

DEPARTMENT OF THE TRIESTOR	U-14283		
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NAME		
(Do not use this form for proposals to drill or to deepen or plug back to a proposals.) ON The second of the seco	Sevier Bridge Unit		
reservoir. Use Form 9–331–C for such proposals.)	NO8. FARM OR LEASE NAME		
1. oil — gas — OIL, GROU	Sevier Bridge Unit NOB. FARM OR LEASE NAME Sevier Bridge Unit		
well Well other P & A	9. WELL NO.		
2. NAME OF OPERATOR	#1		
Amoco Production Company	10. FIELD OR WILDCAT NAME		
3. ADDRESS OF OPERATOR	Wildcat -		
P.O. Box 17675 Salt Lake City, UT 84117	11. SEC., T., R., M., OR BLK. AND SURVEY OR		
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	AREA		
below.)	Sec. 11, T16S, RIW SLBM		
AT SURFACE: 1079' FSL & 2027' FEL	12. COUNTY OR PARISH 13. STATE		
AT TOP PROD. INTERVAL: AT TOTAL DEPTH:	<u>Juab</u> Utah		
	14. API NO.		
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	43-023-30010		
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)		
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	5700' GR		
TEST WATER SHUT-OFF			
FRACTURE TREAT			
SHOOT OR ACIDIZE			
REPAIR WELL	(NOTE: Report results of multiple completion or zone		
PULL OR ALTER CASING	change on Form 9 330		
MULTIPLE COMPLETE	E E E		
CHANGE ZONES			
(other)			
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly statincluding estimated date of starting any proposed work. If well is d measured and true vertical depths for all markers and zones pertinent.)	lirectionally drilled, give subsurface locations and		
The subject well was plugged and abandoned on 7-7-81 in the following			

described manner:

11,000'

Casing: 13 3/8" - 61# - K-55, S-80, ST&C SA 1801' w/2260 sx

100 sx plug from 10,900' to 11,000' 100 sx plug from 7890' to 8190'

(seal Navajo) 100 sx plug from 5135' to 5335' (seal Navajo)

150 sx plug from 1700' to 1900' (100' in and 100' out of 13 3/8" casing)

50 sx surface plug, clean, level location & install marker Subsurface Safety Valve: Manu. and Type

18. I hereby certify that the foregoing is true and correct

Administrative Original Signed By SIGNED TITLE -Supervisor G. R. WEST

September 24, 1981

APPROVED BY APPROVAL,

(This space for Federal or State office use) E. W. GUYNN

OCT 19 1981



Scott M. Matheson, Governor Temple A. Reynolds, Executive Director Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

March 15, 1982

Amoco Production Company
P. O. Box 17675
Salt Lake City, Utah 84117

Re: Well No. Sevier Bridge Unit #1
Sec. 11, T. 16S, R. 1W.
Juab County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office September 24, 1981, from above referred to well, indicates the following electric logs were run: BHC-Sonic, DIL-SFL, CNL-FDC-GE, Dipmeter. As of todays date, this office has not received these logs.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cari Furse Clerk Typist

Scott M. Matheson, Governor Temple A. Reynolds, Executive Director Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

July 6, 1984

Amoco Production Company P.O. Box 829 Evanston, Wyoming 82940

Attention Karen Gollmer

Gentlemen

SUBJECT: WELL NO. SEVIER BRIDGE #1

In an effort to bring our well files up to date, we have discovered that our office received a copy of the DST #3 on Well No. Sevier Bridge Unit #1, API #43-023-30010, Sec. 11 T. 16S., R. 1W., Juab County, Utah, however, we have been unable to locate copies of DST #1 and DST #2.

We would appreciate receiving a copy of these tests at your earliest convenience.

Thank you for your continuing cooperation.

Sincerely

Claudia L. Jones

Well Records Specialist

clj

cc Dianne R. Nielson Ronald J. Firth John R. Baza File



Scott M. Matheson, Governor Temple A. Reynolds, Executive Director Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

October 30, 1984

Amoco Production Company 501 Airport Drive Farmington, New Mexico 87401

2nd NOTICE

Gentlemen:

Re: Well No. Sevier Bridge #1 - Sec. 11, T. 16S., R. 1W. Juab County, Utah - API #43-023-30010

This office requested copies of DST #1 and DST #2 run on the above referred to well in our letter of July 6, 1984. This letter was sent to Amoco in Evanston. As of today's date we have not received this information.

Rule C-5 of The Oil and Gas Conservation General Rules and Regulations and Rules and Practice and Procedure states:

(c) The "Well Log" shall mean the written record progressively describing the strata, water, oil or gas encountered in drilling a well with such additional information as is usually included in the normal procedure of drilling. This information shall record details of drill-stem tests, including interval tested, pressures and recoveries ..."

Your prompt attention to this matter will be greatly appreciated.

Respectfully,

Norman C. Stout

Administrative Assistant

clj cc: Dianne R. Nielson Ronald J. Firth John R. Baza File 00000011/17



W. J. Holcomb District Manager

November 14, 1984

State of Utah Natural Resources Attention: Norman C. Stout 4241 State Office Bldg, Salt Lake City, Utah 84114

W.J. Holcomb BLS

File: DDL-1123-WF

Sevier Bridge #1 - API #43-023-30010 Sec. 11-T16S-R1W, Juab County, Utah **Amoco Production Company**

Petroleum Center Building 501 Airport Drive Farmington, New Mexico 87401 505-325-8841

RECEIVED

NOV 19 1984

DIVISION OF OIL GAS & MINING

This is in reference to your letter of October 30, 1984, File: 00000011/17 concerning your request for DST tests on the above subject well.

Amoco's Evanston, Wyoming District office has recently transferred the above subject well to our office. After searching files at both offices, we have discovered that the well files are missing or misplaced. We are continuing to try and locate these files.

Please advise if it would be possible to waive Rule C-5 on this well. Also, we would like to request a copy of any well files that you have in your office.

.

BDS/p1

July 27, 1988

Amoco Production Company P. O. Box 17675 Salt Lake City, Utah 84117

> Re: Well No. Ken Cummings Federal "D" #1 Sec. 11, T. 16S, R. 1W Juab County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned well is due and has not been filed with this office as required by our rules and regulations.

Plea Please complete the enclosed Form OGC-3, in duplicated, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Sandy Bates

Clerk-Typist

/1m

Enclosures